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enhanced  
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NEWS 5 APR 24 CA/CAPLUS now has more comprehensive patent assignee  
information  
NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent  
assignment/reassignment information  
NEWS 7 APR 28 CAS patent authority coverage expanded  
NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced  
NEWS 9 APR 28 Limits doubled for structure searching in CAS  
REGISTRY  
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NEWS 11 MAY 11 STN on the Web enhanced  
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STN Easy  
NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased  
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status data  
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in  
records back to 1992  
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching  
enhanced on STN  
NEWS 17 JUN 25 NUTRACEUT and PHARMAML discontinued  
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\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 15:17:20 ON 25 JUN 2009

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

FILE 'REGISTRY' ENTERED AT 15:17:36 ON 25 JUN 2009

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STRUCTURE FILE UPDATES: 23 JUN 2009 HIGHEST RN 1159631-40-9

DICTIONARY FILE UPDATES: 23 JUN 2009 HIGHEST RN 1159631-40-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

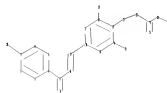
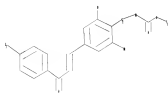
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predicted properties as well as tags indicating availability of  
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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\1520078 updated 2.str



chain nodes :

7 8 9 16 17 18 21 22 23 24 25 27 28

```

ring nodes :
1  2  3  4  5  6  10  11  12  13  14  15
chain bonds :
3-28  6-7  7-8  7-16  8-9  9-10  12-17  13-21  14-18  21-22  22-23  23-24  23-25
24-27
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  10-11  10-15  11-12  12-13  13-14  14-15
exact/norm bonds :
3-28  7-16  12-17  13-21  14-18  21-22  22-23  23-24  23-25  24-27
exact bonds :
6-7  7-8  8-9  9-10
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  10-11  10-15  11-12  12-13  13-14  14-15

```

G1:X,Ak,O,S

G2:O,S

G3:H,Ak

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 21:CLASS
22:CLASS 23:CLASS 24:CLASS 25:CLASS 27:CLASS 28:CLASS

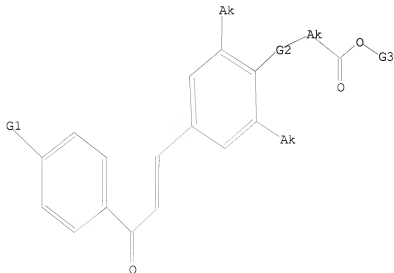
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 X, Ak, O, S

G2 O, S

G3 H, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s ll sss ful  
FULL SEARCH INITIATED 15:17:58 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 27933 TO ITERATE

100.0% PROCESSED 27933 ITERATIONS 157 ANSWERS  
SEARCH TIME: 00.00.01

L2 157 SEA SSS FUL L1

=> fil cap  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 185.88 186.10

FILE 'CAPLUS' ENTERED AT 15:18:06 ON 25 JUN 2009  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 25 Jun 2009 VOL 150 ISS 26  
FILE LAST UPDATED: 24 Jun 2009 (20090624/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2  
L3 8 L2

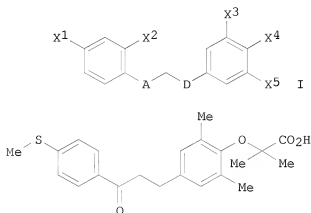
=> d l3 1-8 ibib abs hitstr

L3 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2007:1470011 CAPLUS  
DOCUMENT NUMBER: 148:100385  
TITLE: Preparation of 1,3-diphenylpropane derivatives, particularly 2-[4-(3-oxo-3-phenylpropyl)phenoxy]-2-methylpropanoic acids and related derivatives, as PPAR agonists for treating diseases especially dyslipidemia  
INVENTOR(S): Delhomel, Jean-Francois; Hanf, Remy; Caumont-Bertrand, Karine  
PATENT ASSIGNEE(S): Genfit, Fr.  
SOURCE: PCT Int. Appl., 108pp.

DOCUMENT TYPE: CODEN: PIXXD2  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: French  
 PATENT INFORMATION: 2

| PATENT NO.             | KIND                                                                                                                                                                                                                                                                                                                                                                                                                                       | DATE     | APPLICATION NO. | DATE       |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|------------|
| WO 2007147879          | A1                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20071227 | WO 2007-EP56224 | 20070621   |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW |          |                 |            |
| RW:                    | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM                                                                                                                                                 |          |                 |            |
| FR 2902789             | A1                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20071228 | FR 2006-5540    | 20060621   |
| AU 2007262938          | A1                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20071227 | AU 2007-262938  | 20070621   |
| CA 2655643             | A1                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20071227 | CA 2007-2655643 | 20070621   |
| EP 2046715             | A1                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20090415 | EP 2007-730296  | 20070621   |
| R:                     | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS                                                                                                                                                                                                                                                                                         |          |                 |            |
| IN 2009MN00149         | A                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20090515 | IN 2009-MN149   | 20090119   |
| KR 2009035535          | A                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20090409 | KR 2009-701319  | 20090121   |
| PRIORITY APPLN. INFO.: |                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | FR 2006-5540    | A 20060621 |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | WO 2007-EP56224 | W 20070621 |

OTHER SOURCE(S): MARPAT 148:100385  
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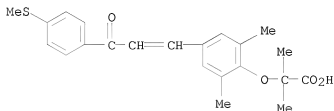


II

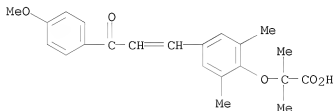
AB Title compds. I [X1 = R1, G1R1; X2 = halo, R2, G2R2; X3 = R3, G3R3; X4 = halo, R4, G4R4; X5 = R5, G5R5; R1 = H, nonhalogenated alkyl; R2 = H, alkyl; R3-R5 = independently H, (un)substituted alkyl; G1-G5 = independently O, S; with at least one of X3-X5 = R3, G3R3, R4, G4R4, R5, G5R5 in which G3-G5 = defined as above and R3-R5 = independently alkyl substituted with 1-2 substituents selected from CO2H and derivs., CONH2 and derivs., SO3H, SO2NH2 and derivs.; A = CR6R7, CO, C:N-OH, C:N-OR8; R6, R7 = independently H, OH, OR8, alkyl; R8 = independently alkyl substituted

with an aryl or cycloalkyl group; D = CH<sub>2</sub>, CHY; Y = O- or S-heterocycle; with the exclusion of compds. I in which A = CH<sub>2</sub> and at least 3 of X1-X5 = H; and their stereoisomers, racemates, geometrical isomers, tautomers, salts, hydrates, solvates, solid forms and their mixts.] were prepared as PPAR activators, especially agonists, for treating dyslipidemia, diabetes type II and related diseases. Thus, reduction of 2-[2,6-dimethyl-4-[3-[4-(methylthio)phenyl]-3-oxoprop-1-enyl]phenoxy]-2-methylpropanoic acid with triethylsilane in TFA at room temperature gave acid

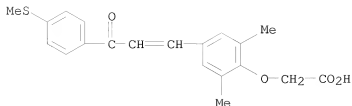
- II (m.p. = 109-110°). Selected I were hPPAR $\alpha$ , hPPAR $\gamma$ , and/or hPPAR $\delta$  activators in an induced luciferase activity via hPPAR $\alpha$ /Gal4, hPPAR $\gamma$ /Gal4, and hPPAR $\delta$ /Gal4 transactivation assay. I displayed hypolipemic properties by lowering the plasmatic cholesterol and triglycerides rates. I are useful for treating diabetes type II, dyslipidemia, pathologies associated with metabolic syndrome, cardiovascular diseases, etc.
- IT 824932-88-9 1000334-92-8 1000334-94-0  
1000334-96-2 1000335-03-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of 1,3-diphenylpropane derivs. as PPAR activators for treating diseases especially dyslipidemia)
- RN 824932-88-9 CAPLUS  
CN Propanoic acid, 2-[2,6-dimethyl-4-[3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



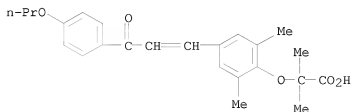
- RN 1000334-92-8 CAPLUS  
CN Propanoic acid, 2-[4-[3-(4-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



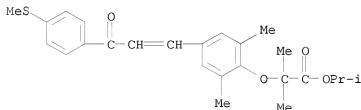
- RN 1000334-94-0 CAPLUS  
CN Acetic acid, 2-[2,6-dimethyl-4-[3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]- (CA INDEX NAME)



RN 1000334-96-2 CAPLUS  
 CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-(4-propoxyphenyl)-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



RN 1000335-03-4 CAPLUS  
 CN Propanoic acid, 2-[2,6-dimethyl-4-[3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl-, 1-methylethyl ester (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

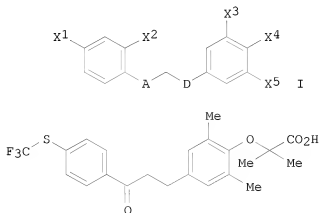
L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2009 ACS on SIN  
 ACCESSION NUMBER: 2007:1470010 CAPLUS  
 DOCUMENT NUMBER: 148:100384  
 TITLE: Preparation of 1,3-diphenylpropane derivatives, particularly 2-[4-(3-oxo-3-phenylpropyl)phenoxy]-2-methylpropanoic acids and related derivatives, as PPAR agonists for treating diseases especially dyslipidemia  
 INVENTOR(S): Delhomel, Jean-Francois; Hanf, Remy; Caumont-Bertrand, Karine  
 PATENT ASSIGNEE(S): Genfit, Fr.  
 SOURCE: PCT Int. Appl., 97pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE  |
|------------|------|------|-----------------|-------|
| -----      | ---- | ---- | -----           | ----- |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                 |            |
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| WO 2007147880          | A1                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20071227 | WO 2007-EP56225 | 20070621   |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW |          |                 |            |
| RW:                    | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM                                                                                                                                                     |          |                 |            |
| FR 2902789             | A1                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20071228 | FR 2006-5540    | 20060621   |
| AU 2007262939          | A1                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20071227 | AU 2007-262939  | 20070621   |
| CA 2655744             | A1                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20071227 | CA 2007-2655744 | 20070621   |
| EP 2046716             | A1                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20090415 | EP 2007-786798  | 20070621   |
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| IN 2008DN10605         | A                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20090612 | IN 2008-DN10605 | 20081223   |
| KR 2009059105          | A                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20090610 | KR 2009-701318  | 20090121   |
| PRIORITY APPLN. INFO.: |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | FR 2006-5540    | A 20060621 |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | WO 2007-EP56225 | W 20070621 |

OTHER SOURCE(S): MARPAT 148:100384

GI



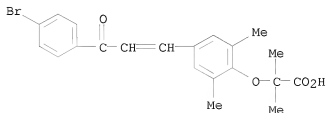
II

AB Title compds. I [X1 = halo, R1, G1R1; X2 = halo, R2, G2R2; X3 = R3, G3R3; X4 = halo, R4, G4R4; X5 = R5, G5R5; R1 = haloalkyl; R2 = H, alkyl; R3-R5 = independently H, (un)substituted alkyl; G1-G5 = independently O, S; with at least one of X3-X5 = R3, G3R3, R4, G4R4, R5, G5R5 in which G3-G5 = defined as above and R3-R5 = independently alkyl substituted with 1-2 substituents selected from CO2H and derivs., CONH2 and derivs., SO3H, SO2NH2 and derivs.; A = CR6R7, CO, C:N-OH, C:N-OR8; R6 = H, alkyl, OR8; R7 = alkyl, OH, OR8; R8 = independently alkyl substituted with an aryl or cycloalkyl group; D = CH2, CHY; Y = O- or S-heterocycle; and their stereoisomers, racemates, geometrical isomers, tautomers, salts, hydrates, solvates, solid forms and their mixts.] were prepared as PPAR activators, especially agonists, for treating dyslipidemia, diabetes type II and related diseases. Thus, reduction of 2-[2,6-dimethyl-4-([3-(4-(trifluoromethylthio)phenyl)-3-oxoprop-1-enyl]phenoxy)-2-methylpropanoic acid with triethylsilane in DCM in the presence of TFA at room temperature gave the acid II (m.p. = 83-85°). Selected I were hPPARα,

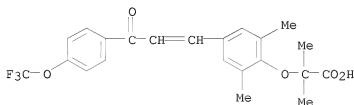


hPPAR $\gamma$ , and/or hPPAR $\delta$  activators in an induced luciferase activity via hPPAR $\alpha$ /Gal4, hPPAR $\gamma$ /Gal4, and hPPAR $\delta$ /Gal4 transactivation assay. I displayed hypolipemic properties by lowering the plasmatic cholesterol and triglycerides rates. I are useful for treating diabetes type II, dyslipidemia, pathologies associated with metabolic syndrome, cardiovascular diseases, etc.

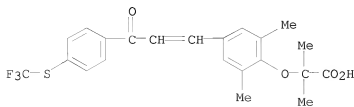
- IT 824932-97-0 1000336-54-8 1000336-56-0  
 1000336-59-3, 2-[2,6-Dimethyl-4-[3-[4-(trifluoromethyl)phenyl]-3-oxoprop-1-enyl]phenoxy]-2-methylpropanoic acid 1000336-67-3, tert-Butyl 2-[[4-[3-(4-hydroxyphenyl)-3-oxoprop-1-enyl]-2,6-dimethylphenyl]oxy]-2-methylpropanoate 1000336-69-5, tert-Butyl 2-[[4-[3-(2-fluoro-4-hydroxyphenyl)-3-oxoprop-1-enyl]-2,6-dimethylphenyl]oxy]-2-methylpropanoate  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of 1,3-diphenylpropane derivs. as PPAR activators for treating diseases especially dyslipidemia)  
 RN 824932-97-0 CAPLUS  
 CN Propanoic acid, 2-[4-[3-(4-bromophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



- RN 1000336-54-8 CAPLUS  
 CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-[4-(trifluoromethoxy)phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

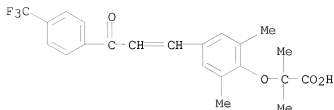


- RN 1000336-56-0 CAPLUS  
 CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-[4-[(trifluoromethyl)thio]phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



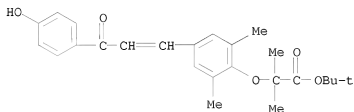
- RN 1000336-59-3 CAPLUS  
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propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



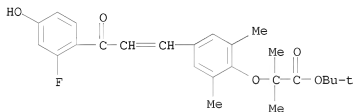
RN 1000336-67-3 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 1000336-69-5 CAPLUS

CN Propanoic acid, 2-[4-[3-(2-fluoro-4-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2009 ACS on SIN

ACCESSION NUMBER: 2007:151078 CAPLUS

DOCUMENT NUMBER: 146:229042

TITLE: Combinations of substituted 1,3-diphenylprop-2-en-1-one derivatives with other therapeutically active ingredients and their preparation, and use in the treatment of diseases

INVENTOR(S): Delhomel, Jean Francois; Caumont-Bertrand, Karine

PATENT ASSIGNEE(S): Genfit, Fr.

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CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

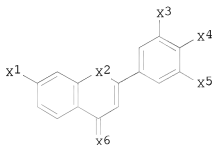
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PATENT INFORMATION:

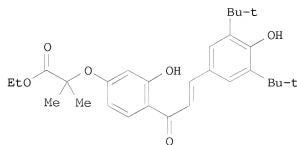
| PATENT NO.                                                          | KIND | DATE     | APPLICATION NO. | DATE           |
|---------------------------------------------------------------------|------|----------|-----------------|----------------|
| US 20070032543                                                      | A1   | 20070208 | US 2006-493040  | 20060726       |
| FR 2841900                                                          | A1   | 20040109 | FR 2002-8571    | 20020708       |
| FR 2841900                                                          | B1   | 20070302 |                 |                |
| WO 2004005233                                                       | A1   | 20040115 | WO 2003-FR2127  | 20030708       |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  |      |          |                 |                |
| CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,     |      |          |                 |                |
| GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,     |      |          |                 |                |
| LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,     |      |          |                 |                |
| PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,     |      |          |                 |                |
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| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, |      |          |                 |                |
| KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,     |      |          |                 |                |
| FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,     |      |          |                 |                |
| BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG      |      |          |                 |                |
| US 20050176808                                                      | A1   | 20050811 | US 2005-520079  | 20050422       |
| PRIORITY APPLN. INFO.:                                              |      |          |                 | A 20020708     |
|                                                                     |      |          |                 | WO 2003-FR2127 |
|                                                                     |      |          |                 | W 20030708     |
|                                                                     |      |          |                 | US 2005-520079 |
|                                                                     |      |          |                 | A2 20050422    |

OTHER SOURCE(S): MARPAT 146:229042

GI



I



II

AB The invention concerns substituted 1,3-diphenylprop-2-en-1-one derivs. of formula I and combinations of said derivs. with other therapeutically active ingredients. The invention also concerns compns. comprising said derivs. or said combinations and uses thereof, for the treatment of cerebrovascular diseases, pathol. related to inflammation, neurodegeneration, deregulations of lipid and/or glucose metabolism, cell proliferation and/or differentiation and/or skin or central nervous system ageing. Compds. of formula I wherein X1 is H, halo, (un)substituted alkyl, OH and derivs., SH and derivs.; X3 is H, thionitroso, OH,

alkylcarbonyloxy, alkyloxy, thio, alkylthio, alkylcarbonylthio, or O and S to form benzopyran derivative or benzothiopyran derivative; X3 - X5 are independently OH and derivs., SH and derivs., H, and (un)substituted alkyl; X6 is O, NH, and NOH and derivs.; and their optical and geometric isomers, racemates, tautomers, salts, hydrates, and mixts. thereof, are claimed. Example compound II was prepared by condensation of 4-[(ethoxycarbonyl)dimethylmethoxylacetophenone with 3,5-di-tert-butyl-4-hydroxybenzaldehyde. All the invention compds. were evaluated for their antioxidant properties, PPAR activation, antiinflammatory activity neuroprotective effect, lipid metabolism effect, and antidiabetic activity.

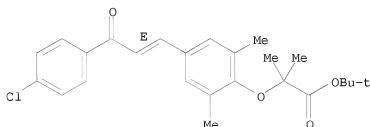
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923978-76-1P 923978-78-3P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(drug candidate and intermediate; preparation of substituted diphenylpropenone derivs. and their use in combinations with other therapeutically active ingredients useful in treatment of diseases)

RN 923978-13-6 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-chlorophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

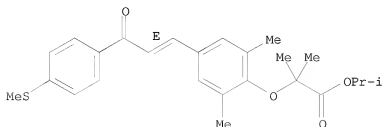
Double bond geometry as shown.



RN 923978-26-1 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl-, 1-methylethyl ester (CA INDEX NAME)

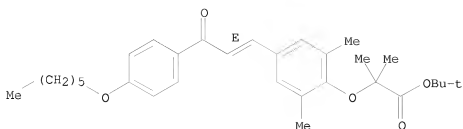
Double bond geometry as shown.



RN 923978-31-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(hexyloxy)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

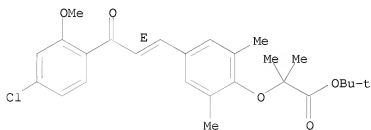
Double bond geometry as shown.



RN 923978-35-2 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-chloro-2-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

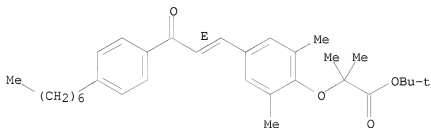
Double bond geometry as shown.



RN 923978-37-4 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-heptylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

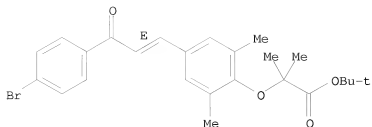
Double bond geometry as shown.



RN 923978-39-6 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-bromophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

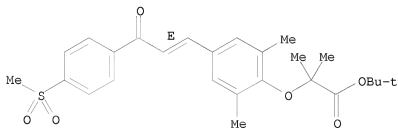
Double bond geometry as shown.



RN 923978-50-1 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(methylsulfonyl)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

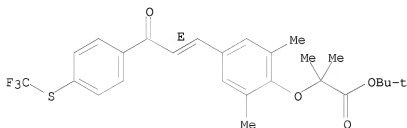
Double bond geometry as shown.



RN 923978-52-3 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-(trifluoromethylthio)phenyl]-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

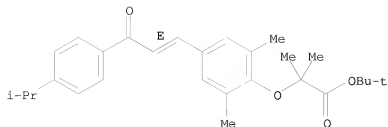
Double bond geometry as shown.



RN 923978-54-5 CAPLUS

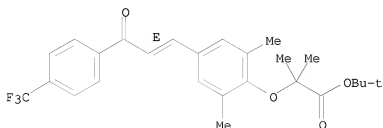
CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(1-methylethyl)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Double bond geometry as shown.



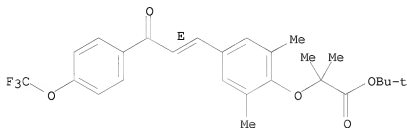
RN 923978-56-7 CAPLUS  
 CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-(trifluoromethyl)phenyl]-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Double bond geometry as shown.



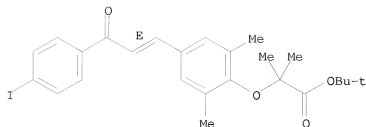
RN 923978-60-3 CAPLUS  
 CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-(trifluoromethoxy)phenyl]-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Double bond geometry as shown.



RN 923978-62-5 CAPLUS  
 CN Propanoic acid, 2-[4-[(1E)-3-(4-iodophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

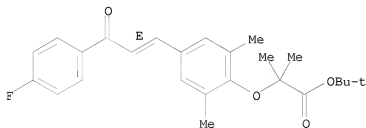
Double bond geometry as shown.



RN 923978-64-7 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-fluorophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

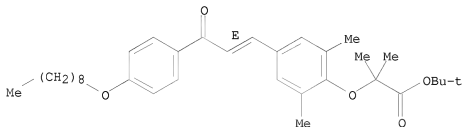
Double bond geometry as shown.



RN 923978-66-9 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(nonyloxy)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

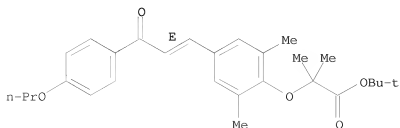
Double bond geometry as shown.



RN 923978-68-1 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-(4-propoxyphenyl)-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Double bond geometry as shown.

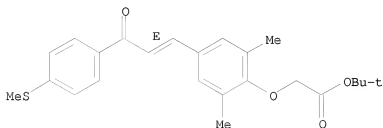




RN 923978-70-5 CAPLUS

CN Acetic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

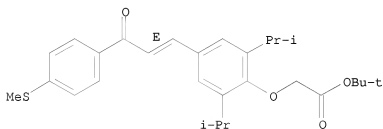
Double bond geometry as shown.



RN 923978-72-7 CAPLUS

CN Acetic acid, 2-[2,6-bis(1-methylethyl)-4-[(1E)-3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

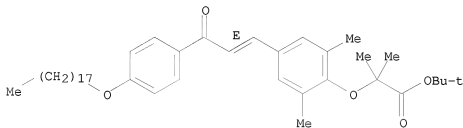
Double bond geometry as shown.



RN 923978-74-9 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(octadecyloxy)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

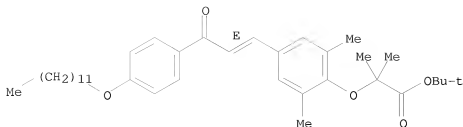
Double bond geometry as shown.



RN 923978-76-1 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(dodecyloxy)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

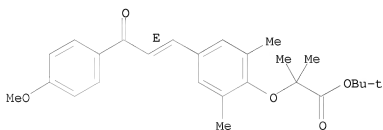
Double bond geometry as shown.



RN 923978-78-3 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Double bond geometry as shown.



IT 639864-34-9P 639864-35-0P 923978-04-5P

923978-12-5P 923978-15-8P 923978-23-8P

923978-25-0P 923978-27-2P 923978-32-9P

923978-36-3P 923978-38-5P 923978-40-9P

923978-51-2P 923978-53-4P 923978-55-6P

923978-57-8P 923978-61-4P 923978-63-6P

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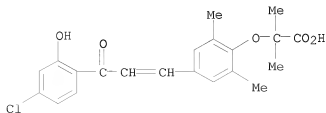
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of substituted diphenylpropenone derivs. and their use in combinations with other therapeutically active ingredients useful in treatment of diseases)

RN 639864-34-9 CAPLUS

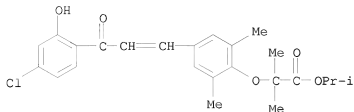
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RN 639864-35-0 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-chloro-2-hydroxyphenyl)-3-oxo-1-propen-1-yl]-

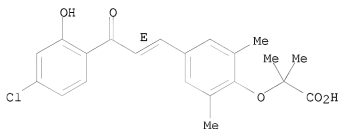
2,6-dimethylphenoxy]-2-methyl-, 1-methylethyl ester (CA INDEX NAME)



RN 923978-04-5 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-chloro-2-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1-methylethyl ester (CA INDEX NAME)

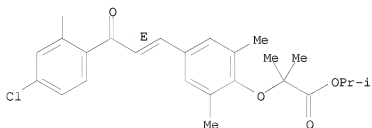
Double bond geometry as shown.



RN 923978-12-5 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-chlorophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1-methylethyl ester (CA INDEX NAME)

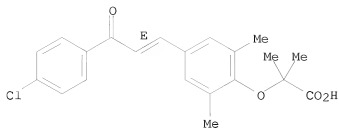
Double bond geometry as shown.



RN 923978-15-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-chlorophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1-methylethyl ester (CA INDEX NAME)

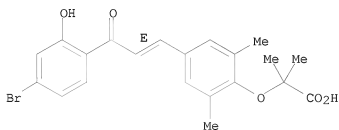
Double bond geometry as shown.



RN 923978-23-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-bromo-2-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

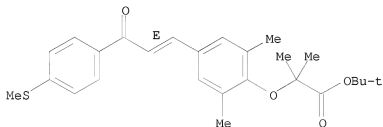
Double bond geometry as shown.



RN 923978-25-0 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-1,1-dimethylethyl ester (CA INDEX NAME)

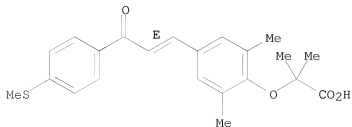
Double bond geometry as shown.



RN 923978-27-2 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-1,1-dimethylethyl ester (CA INDEX NAME)

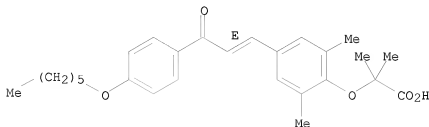
Double bond geometry as shown.



RN 923978-32-9 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(hexyloxy)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

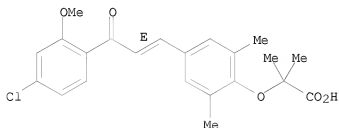
Double bond geometry as shown.



RN 923978-36-3 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-chloro-2-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

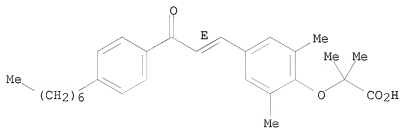
Double bond geometry as shown.



RN 923978-38-5 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-heptylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

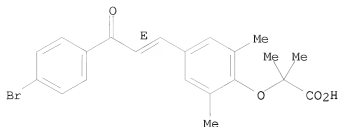
Double bond geometry as shown.



RN 923978-40-9 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-bromophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

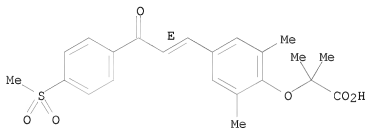
Double bond geometry as shown.



RN 923978-51-2 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(methylsulfonyl)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

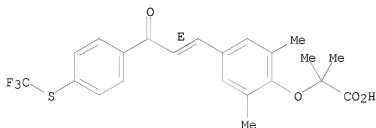
Double bond geometry as shown.



RN 923978-53-4 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-(trifluoromethylthio)phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

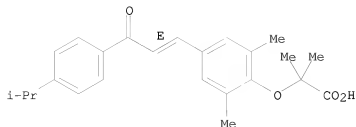
Double bond geometry as shown.



RN 923978-55-6 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(1-methylethyl)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

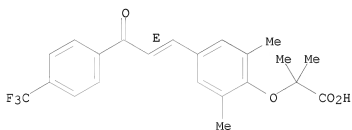
Double bond geometry as shown.



RN 923978-57-8 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-(trifluoromethyl)phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

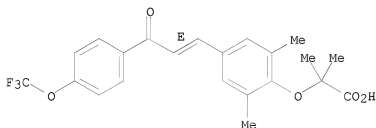
Double bond geometry as shown.



RN 923978-61-4 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-(trifluoromethoxy)phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

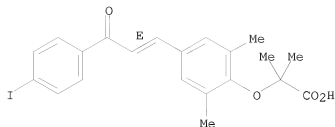
Double bond geometry as shown.



RN 923978-63-6 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-iodophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

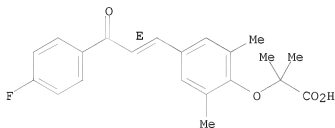
Double bond geometry as shown.



RN 923978-65-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-fluorophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

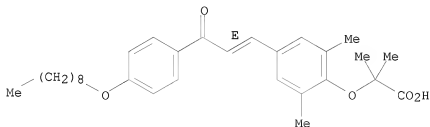
Double bond geometry as shown.



RN 923978-67-0 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(nonyloxy)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

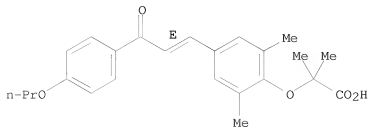
Double bond geometry as shown.



RN 923978-69-2 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-(4-propoxyphenyl)-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

Double bond geometry as shown.

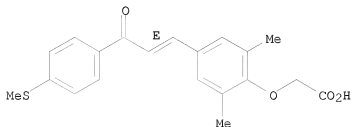




RN 923978-71-6 CAPLUS

CN Acetic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]- (CA INDEX NAME)

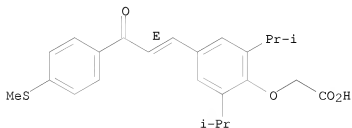
Double bond geometry as shown.



RN 923978-73-8 CAPLUS

CN Acetic acid, 2-[2,6-bis(1-methylethyl)-4-[(1E)-3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]- (CA INDEX NAME)

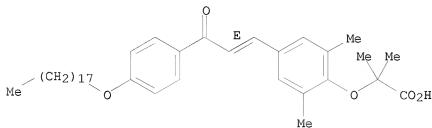
Double bond geometry as shown.



RN 923978-75-0 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(octadecyloxy)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

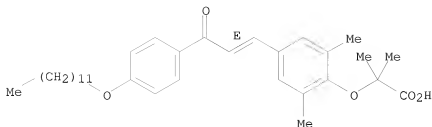
Double bond geometry as shown.



RN 923978-77-2 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(dodecyloxy)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

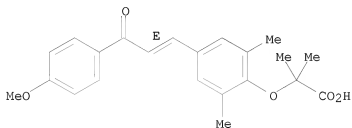
Double bond geometry as shown.



RN 923978-79-4 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

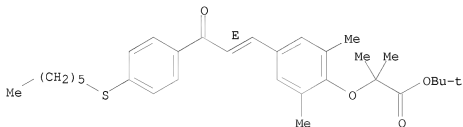
Double bond geometry as shown.



RN 923978-82-9 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(hexylthio)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

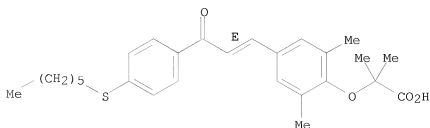
Double bond geometry as shown.



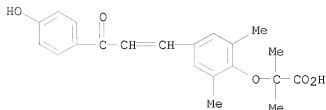
RN 923978-83-0 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(hexylthio)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

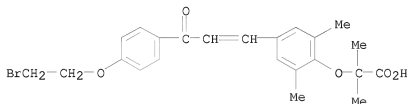
Double bond geometry as shown.



RN 923978-94-3 CAPLUS  
 CN Propanoic acid, 2-[4-[3-(4-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



RN 923978-95-4 CAPLUS  
 CN Propanoic acid, 2-[4-[3-[4-(2-bromoethoxy)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:729631 CAPLUS

DOCUMENT NUMBER: 143:193809

TITLE: Preparation of 1,3-diphenyl-2-propen-1-one as PPAR activators, particularly agonists, and antioxidants and their pharmaceutical and cosmetic compositions  
 Caumont-Bertrand, Karine; Delhomel, Jean-Francois  
 Genfit, Fr.

SOURCE: PCT Int. Appl., 153 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO.    | KIND                                                                                                                                                                                                                                                                                                                                                                                           | DATE     | APPLICATION NO. | DATE     |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2005073184 | A1                                                                                                                                                                                                                                                                                                                                                                                             | 20050811 | WO 2005-FR40    | 20050107 |
| W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |          |
| RW:           | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG                                                                                                             |          |                 |          |
| FR 2864956    | A1                                                                                                                                                                                                                                                                                                                                                                                             | 20050715 | FR 2004-123     | 20040108 |
| FR 2864956    | B1                                                                                                                                                                                                                                                                                                                                                                                             | 20060428 |                 |          |

|               |    |          |                 |          |
|---------------|----|----------|-----------------|----------|
| AU 2005209446 | A1 | 20050811 | AU 2005-209446  | 20050107 |
| CA 2550576    | A1 | 20050811 | CA 2005-2550576 | 20050107 |
| EP 1701938    | A1 | 20060920 | EP 2005-717386  | 20050107 |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,  
BA, HR, IS, YU

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| CN 1930122     | A  | 20070314 | CN 2005-80007226 | 20050107 |
| BR 2005006718  | A  | 20070502 | BR 2005-6718     | 20050107 |
| JP 2007517841  | T  | 20070705 | JP 2006-548344   | 20050107 |
| NO 2006002824  | A  | 20061005 | NO 2006-2824     | 20060616 |
| IN 2006DN03732 | A  | 20070420 | IN 2006-DN3732   | 20060629 |
| US 20080058412 | A1 | 20080306 | US 2006-585329   | 20060706 |
| US 7547729     | B2 | 20090616 |                  |          |
| MX 2006007867  | A  | 20060926 | MX 2006-7867     | 20060707 |
| KR 2006132903  | A  | 20061222 | KR 2006-715988   | 20060808 |

PRIORITY APPLN. INFO.:  
FR 2004-123 A 20040108  
FR 2004-9257 A 20040901  
WO 2005-FR40 W 20050107

OTHER SOURCE(S): MARPAT 143:193809  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [X7 = (un)substituted O-alkyl, S-alkyl; X1-X5 = independently halo, thionitroso, alkoxy, aryloxy, S-alkyl, etc.; X6, X8 = independently H, halo, alkoxy, etc.; with provisos; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptor agonists and antioxidants. Ten biol. examples are given. For example, (E)-II (m.p. = 177-179°) was prepared via condensation of 3,5-dimethyl-4-methylthioacetophenone (preparation given) with 3,5-dimethyl-4-hydroxybenzaldehyde, followed by O-alkylation of phenol with tert-Bu bromoisobutyrate and acidolysis of the ester. (E)-III displayed antioxidant properties as demonstrated by diminution of the production of conjugated dienes after Cu-induced LDL oxidation by 90%. (E)-II showed induced luciferase activity via PPARα/Gal4 transactivation with an induction factor of 17.05 at 1 μM. I are useful for treating cardiovascular diseases, dyslipidemia, syndrome X, diabetes, obesity, hypertension, inflammations, dermatol. diseases, cerebral ischemia and the disorders related to the oxidative stress, for treating aging, in particular cutaneous aging.

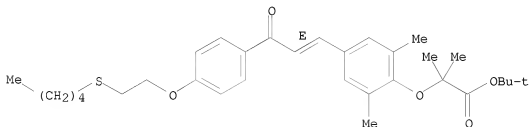
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 (E)-1-(2,3,4,5,6-Pentamethylphenyl)-3-[4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 862099-29-4P, (E)-1-(4-Phenylphenoxyphenyl)-3-[4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 862099-31-8P, (E)-1-(4-Methoxy-3-fluorophenyl)-3-[4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 862099-33-0P, (E)-1-(4-Methoxy-3-methylphenyl)-3-[4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 862099-35-2P, (E)-1-[4-(Hexylthio)-3,5-dimethylphenyl]-3-[4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 862099-39-6P, (E)-1-[3,5-Dimethyl-4-[[2-(morpholin-4-yl)ethyl]oxy]phenyl]-3-[4-[[[(ethyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one hydrochloride 862099-43-2P,  
 (E)-1-(4-Methoxy-3-trifluoromethylphenyl)-3-[4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 RL: COS (Cosmetic use); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (drug candidate; preparation of 1,3-di-Ph-2-propen-1-one as PPAR agonists and antioxidants and their pharmaceutical and cosmetic compns.)

RN 858420-74-3 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-[2-(pentythio)ethoxy]phenyl]-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

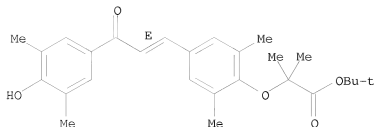
Double bond geometry as shown.



RN 858420-76-5 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-hydroxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

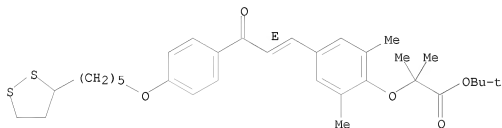
Double bond geometry as shown.



RN 858420-78-7 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-[[5-(1,2-dithiolan-3-yl)pentyl]oxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

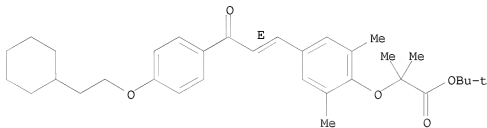
Double bond geometry as shown.



RN 862099-07-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(2-cyclohexylethoxy)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

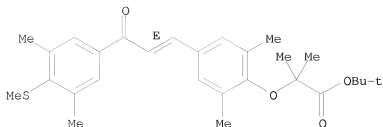
Double bond geometry as shown.



RN 862099-09-0 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[3,5-dimethyl-4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

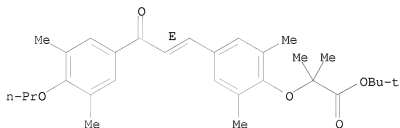
Double bond geometry as shown.



RN 862099-11-4 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(3,5-dimethyl-4-propoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

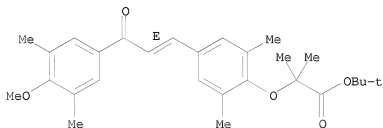
Double bond geometry as shown.



RN 862099-13-6 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-methoxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

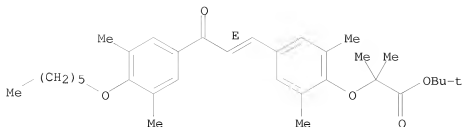
Double bond geometry as shown.



RN 862099-15-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(hexyloxy)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

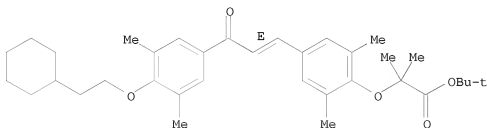
Double bond geometry as shown.



RN 862099-17-0 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(2-cyclohexylethoxy)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

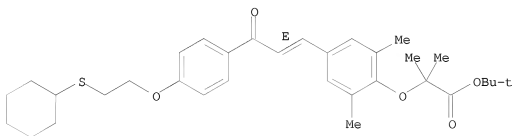
Double bond geometry as shown.



RN 862099-19-2 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-[2-(cyclohexylthio)ethoxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Double bond geometry as shown.

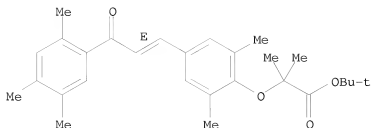


RN 862099-21-6 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-(2,4,5-trimethylphenyl)-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Double bond geometry as shown.

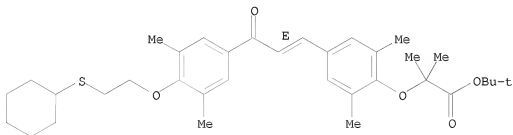




RN 862099-23-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-[2-(cyclohexylthio)ethoxy]-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

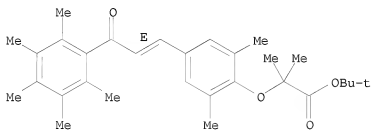
Double bond geometry as shown.



RN 862099-27-2 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-(2,3,4,5,6-pentamethylphenyl)-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

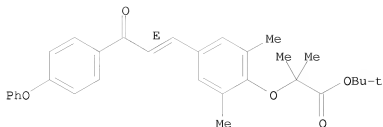
Double bond geometry as shown.



RN 862099-29-4 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-(4-phenoxyphenyl)-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

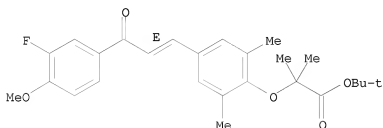
Double bond geometry as shown.



RN 862099-31-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(3-fluoro-4-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

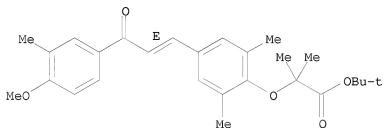
Double bond geometry as shown.



RN 862099-33-0 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-methoxy-3-methylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

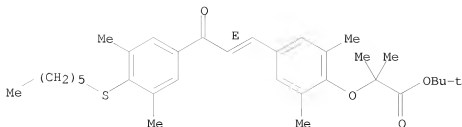
Double bond geometry as shown.



RN 862099-35-2 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(hexylthio)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

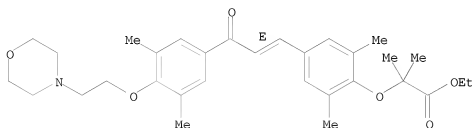
Double bond geometry as shown.



RN 862099-39-6 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[3,5-dimethyl-4-[2-(4-morpholinyl)ethoxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)

Double bond geometry as shown.

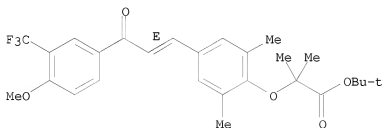


● HCl

RN 862099-43-2 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-methoxy-3-(trifluoromethyl)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Double bond geometry as shown.



IT 858420-75-4P, (E)-1-[4-[[2-(Pentylthio)ethyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-77-6P, (E)-1-(4-Hydroxy-3,5-dimethylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-79-8P, (E)-1-[4-[[5-[(1,2)Dithiolan-3-yl]pentyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-83-4P, 1-[4-[[2-(Pentylthio)ethyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-84-5P, 1-[4-[[2-(Cyclohexylthio)ethyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one

858420-86-7P, 1-(4-Hydroxy-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-87-8P, 1-(4-Methoxy-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-88-9P, 1-[4-[[5-[(1,2)Dithiolan-3-yl]pentyl]oxy]-3,5-  
 dimethylphenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-  
 2-en-1-one 858420-89-0P, 1-[4-[[5-[(1,2)Dithiolan-3-yl]pentyl]oxy]phenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-91-4P, 1-(4-Mercapto-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-92-5P, 1-(4-Methylthio-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-93-6P, 1-[4-[(2-Cyclohexylethyl)thio]-3,5-dimethylphenyl]-3-  
 [4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-94-7P, 1-(4-Hexylthio-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-95-8P, 1-(2,5-Dihydroxy-3,4,6-trimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-96-9P, 1-(2,5-Dimethoxy-3,4,6-trimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858420-99-2P, 1-[4-[(2-Phenylethyl)oxy]phenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 858421-00-8P, 1-[4-[[2-(Morpholin-4-yl)ethyl]oxy]phenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862098-83-7P, 1-[3,5-Dimethyl-4-[[2-(morpholin-4-  
 yl)ethyl]oxy]phenyl]-3-[4-[[[(ethyloxy)carbonyl]dimethylmethyl]oxy]-3,5-  
 dimethylphenyl]prop-2-en-1-one hydrochloride 862098-91-7P,  
 1-[3,5-Dimethyl-4-[[2-(morpholin-4-yl)ethyl]oxy]phenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-08-9P, (E)-1-[4-[(2-Cyclohexylethyl)oxy]phenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-10-3P, (E)-1-(4-Methylthio-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-12-5P, (E)-1-(4-Propyloxy-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-14-7P, (E)-1-(4-Methoxy-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-16-9P, (E)-1-(4-Hexyloxy-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-18-1P, (E)-1-[4-[(2-Cyclohexylethyl)oxy]-3,5-  
 dimethylphenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-  
 2-en-1-one 862099-20-5P, (E)-1-[4-[[2-(Cyclohexylthio)ethyl]oxy]phenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-22-7P, (E)-1-(2,4,5-Trimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-24-9P, (E)-1-[4-[[2-(Cyclohexylthio)ethyl]oxy]-3,5-  
 dimethylphenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-  
 2-en-1-one 862099-28-3P, (E)-1-(2,3,4,5,6-Pentamethylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-  
 dimethylphenyl]prop-2-en-1-one 862099-30-7P, (E)-1-(4-Phenylloxyphe-  
 nyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-  
 dimethylphenyl]prop-2-en-1-one 862099-32-9P, (E)-1-(4-Methoxy-3-fluorophenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-  
 dimethylphenyl]prop-2-en-1-one 862099-34-1P, (E)-1-(4-Methoxy-3-methylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-  
 dimethylphenyl]prop-2-en-1-one 862099-36-3P, (E)-1-[4-(Hexylthio)-3,5-dimethylphenyl]-3-[4-[(carboxydimethylmethyl)oxy]-  
 3,5-dimethylphenyl]prop-2-en-1-one 862099-40-9P, (E)-1-[3,5-Dimethyl-4-[[2-(morpholin-4-yl)ethyl]oxy]phenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one

862099-44-3P, (E)-1-(4-Methoxy-3-trifluoromethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-47-6P, 1-[4-[[2-(Pentylthio)ethyl]oxy]phenyl]-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-49-8P, 1-(4-Hydroxy-3,5-dimethylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-51-2P, 1-[4-[[5-[(1,2)Dithiolan-3-yl]pentyl]oxy]phenyl]-3-  
 [4-[[[(tert-butyl)oxy]carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-  
 2-en-1-one 862099-54-5P,  
 1-[4-[[2-(Cyclohexylethyl)oxy]phenyl]-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-55-6P, 1-[4-[[2-(Cyclohexylethyl)oxy]phenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-58-9P, 1-(4-Methylthio-3,5-dimethylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-59-0P, 1-(4-Propyloxy-3,5-dimethylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-60-3P, 1-(4-Propyloxy-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-61-4P, 1-(4-Methoxy-3,5-dimethylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-62-5P, 1-(4-Hexyloxy-3,5-dimethylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-63-6P, 1-(4-Hexyloxy-3,5-dimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-64-7P, 1-[4-[[2-(Cyclohexylethyl)oxy]-3,5-dimethylphenyl]-3-  
 [4-[[[(tert-butyl)oxy]carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-  
 2-en-1-one 862099-65-8P,  
 1-[4-[[2-(Cyclohexylethyl)oxy]-3,5-dimethylphenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-66-9P, 1-[4-[[2-(Cyclohexylthio)ethyl]oxy]phenyl]-3-[4-  
 [[[(tert-butyl)oxy]carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-  
 en-1-one 862099-67-0P, 1-(2,4,5-Trimethylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-68-1P, 1-(2,4,5-Trimethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-69-2P, 1-[4-[[2-(Cyclohexylthio)ethyl]oxy]-3,5-  
 dimethylphenyl]-3-[4-[[[(tert-butyl)oxy]carbonyl]dimethylmethyl]oxy]-3,5-  
 dimethylphenyl]prop-2-en-1-one 862099-70-5P,  
 1-[4-[[2-(Cyclohexylthio)ethyl]oxy]-3,5-dimethylphenyl]-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-73-8P, 1-(2,3,4,5,6-Pentamethylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-74-9P, 1-(2,3,4,5,6-Pentamethylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-75-0P, 1-(4-Phenylloxyphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-76-1P, 1-(4-Phenylloxyphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-77-2P, 1-(4-Methoxy-3-fluorophenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-78-3P, 1-(4-Methoxy-3-fluorophenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-79-4P, 1-(4-Methoxy-3-methylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-80-7P, 1-(4-Methoxy-3-methylphenyl)-3-[4-  
 [(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-81-8P, 1-[4-(Hexylthio)-3,5-dimethylphenyl]-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-85-2P, 1-(4-Methoxy-3-trifluoromethylphenyl)-3-[4-[[[(tert-  
 butyloxy)carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 862099-86-3P, 1-(4-Methoxy-3-trifluoromethylphenyl)-3-[4-

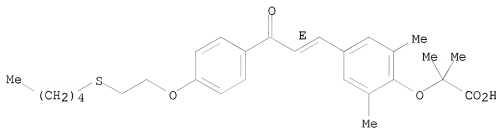
[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
 RL: COS (Cosmetic use); PAC (Pharmacological activity); SPN (Synthetic  
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)

(drug candidate; preparation of 1,3-di-Ph-2-propen-1-one as PPAR agonists  
 and antioxidants and their pharmaceutical and cosmetic compns.)

RN 858420-75-4 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-[2-(  
 pentylthio)ethoxy]phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX  
 NAME)

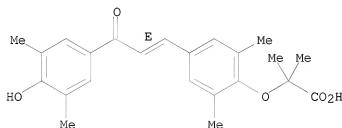
Double bond geometry as shown.



RN 858420-77-6 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-hydroxy-3,5-dimethylphenyl)-3-oxo-1-propen-  
 1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

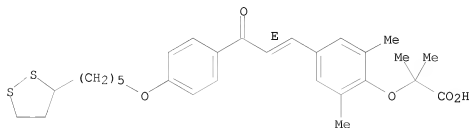
Double bond geometry as shown.



RN 858420-79-8 CAPLUS

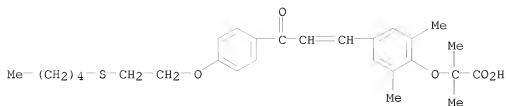
CN Propanoic acid, 2-[4-[(1E)-3-[4-[[5-(1,2-dithiolan-3-yl)pentyl]oxy]phenyl]-  
 3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

Double bond geometry as shown.



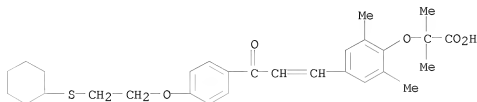
RN 858420-83-4 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-[4-[2-(  
 pentylthio)ethoxy]phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX  
 NAME)



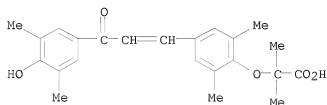
RN 858420-84-5 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-(2-(cyclohexylthio)ethoxy)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



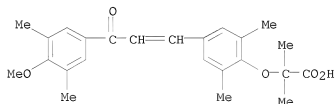
RN 858420-86-7 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-hydroxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



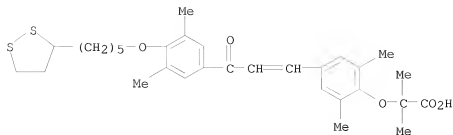
RN 858420-87-8 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-methoxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



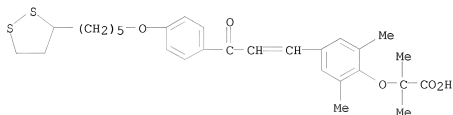
RN 858420-88-9 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-[[5-(1,2-dithiolan-3-yl)pentyl]oxy]-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



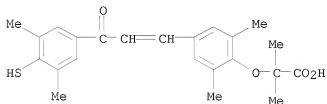
RN 858420-89-0 CAPLUS

CN Propanoic acid, 2-[4-{3-[4-[(1,2-dithiolan-3-yl)pentyl]oxy]phenyl}-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



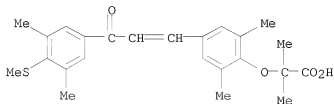
RN 858420-91-4 CAPLUS

CN Propanoic acid, 2-[4-{3-[4-(4-mercapto-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



RN 858420-92-5 CAPLUS

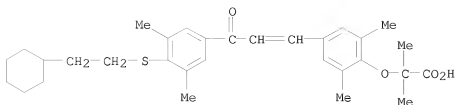
CN Propanoic acid, 2-[4-{3-[3,5-dimethyl-4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



RN 858420-93-6 CAPLUS

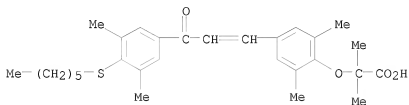
CN Propanoic acid, 2-[4-{3-[4-[(2-cyclohexylethyl)thio]-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)





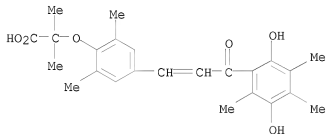
RN 858420-94-7 CAPLUS

CN Propanoic acid, 2-[4-{3-[4-(hexylthio)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



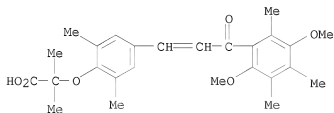
RN 858420-95-8 CAPLUS

CN Propanoic acid, 2-[4-{3-(2,5-dihydroxy-3,4,6-trimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



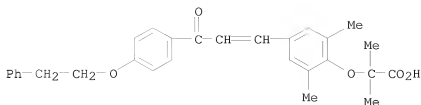
RN 858420-96-9 CAPLUS

CN Propanoic acid, 2-[4-{3-(2,5-dimethoxy-3,4,6-trimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



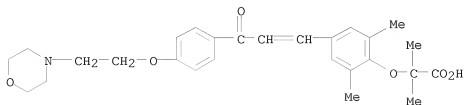
RN 858420-99-2 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-[4-(2-phenylethoxy)phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



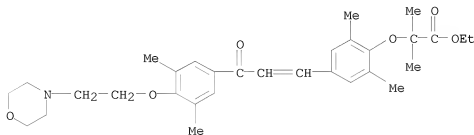
RN 858421-00-8 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[3-[4-[2-(4-morpholinyl)ethoxy]phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



RN 862098-83-7 CAPLUS

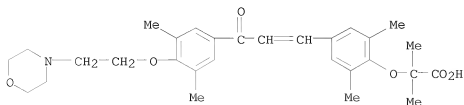
CN Propanoic acid, 2-[4-[3-[3,5-dimethyl-4-[2-(4-morpholinyl)ethoxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 862098-91-7 CAPLUS

CN Propanoic acid, 2-[4-[3-[3,5-dimethyl-4-[2-(4-morpholinyl)ethoxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

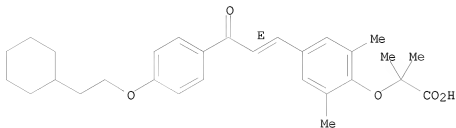


RN 862099-08-9 CAPLUS

CN Propanoic acid, 2-[4-[1E)-3-[4-(2-cyclohexylethoxy)phenyl]-3-oxo-1-propen-

1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

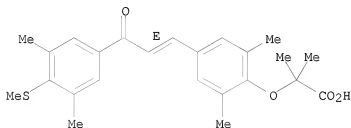
Double bond geometry as shown.



RN 862099-10-3 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[3,5-dimethyl-4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

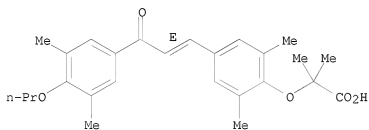
Double bond geometry as shown.



RN 862099-12-5 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(3,5-dimethyl-4-propoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

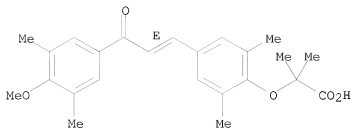
Double bond geometry as shown.



RN 862099-14-7 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-methoxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

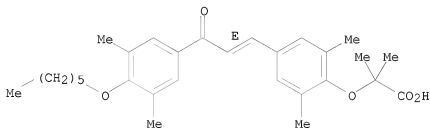
Double bond geometry as shown.



RN 862099-16-9 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(hexyloxy)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

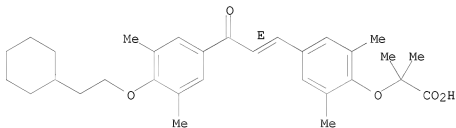
Double bond geometry as shown.



RN 862099-18-1 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(2-cyclohexylethoxy)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

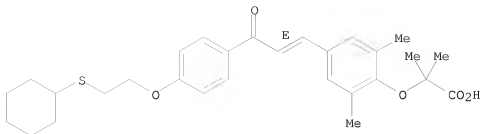
Double bond geometry as shown.



RN 862099-20-5 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-[2-(cyclohexylthio)ethoxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

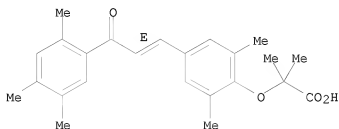
Double bond geometry as shown.



RN 862099-22-7 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-(2,4,5-trimethylphenyl)-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

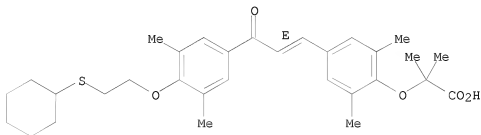
Double bond geometry as shown.



RN 862099-24-9 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-[2-(cyclohexylthio)ethoxy]-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

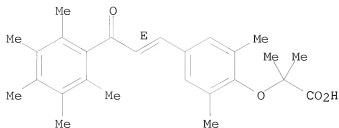
Double bond geometry as shown.



RN 862099-28-3 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-(2,3,4,5,6-pentamethylphenyl)-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

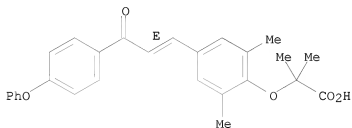
Double bond geometry as shown.



RN 862099-30-7 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-(4-phenoxymethylphenyl)-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)

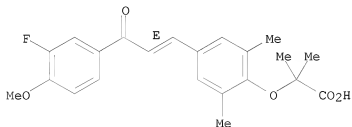
Double bond geometry as shown.



RN 862099-32-9 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(3-fluoro-4-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

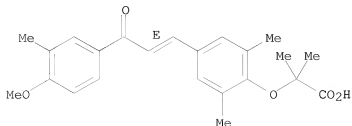
Double bond geometry as shown.



RN 862099-34-1 CAPLUS

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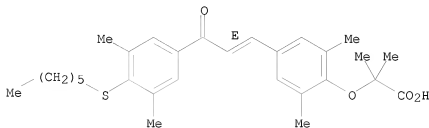
Double bond geometry as shown.



RN 862099-36-3 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-(hexylthio)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

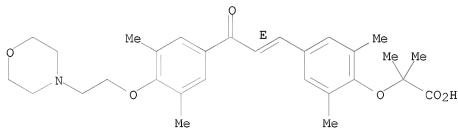
Double bond geometry as shown.



RN 862099-40-9 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[3,5-dimethyl-4-[2-(4-morpholinyl)ethoxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

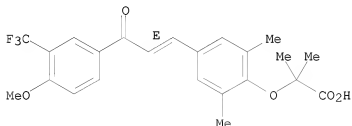
Double bond geometry as shown.



RN 862099-44-3 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-methoxy-3-(trifluoromethyl)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

Double bond geometry as shown.

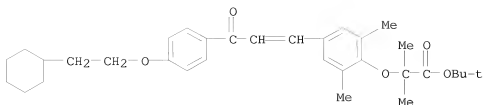


RN 862099-47-6 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-[4-[2-(pentylthio)ethoxy]phenyl]-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

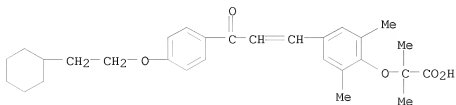






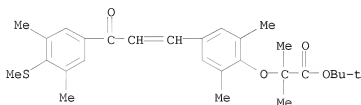
RN 862099-55-6 CAPLUS

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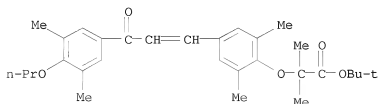
RN 862099-58-9 CAPLUS

CN Propanoic acid, 2-[4-[3-[3,5-dimethyl-4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



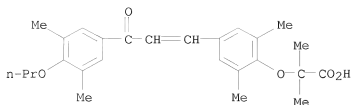
RN 862099-59-0 CAPLUS

CN Propanoic acid, 2-[4-[3-(3,5-dimethyl-4-propoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



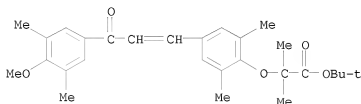
RN 862099-60-3 CAPLUS

CN Propanoic acid, 2-[4-[3-(3,5-dimethyl-4-propoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



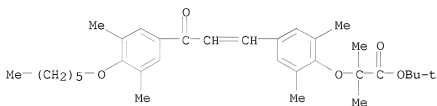
RN 862099-61-4 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-methoxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



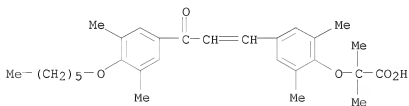
RN 862099-62-5 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-(hexyloxy)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



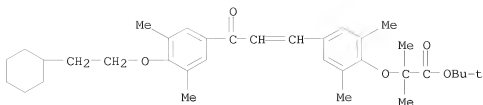
RN 862099-63-6 CAPLUS

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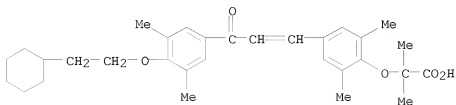
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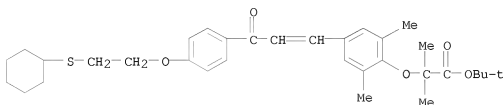
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CN Propanoic acid, 2-[4-[3-[4-(2-cyclohexylethoxy)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



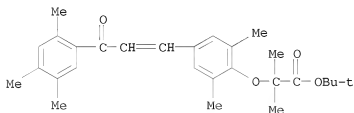
RN 862099-66-9 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-(2-(cyclohexylthio)ethoxy]phenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



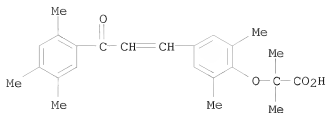
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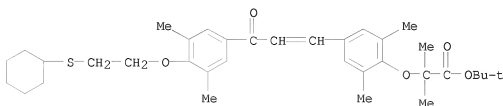
RN 862099-68-1 CAPLUS

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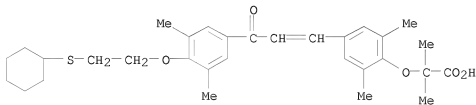
RN 862099-69-2 CAPLUS

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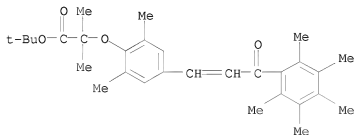
RN 862099-70-5 CAPLUS

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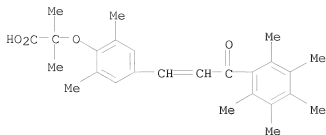
RN 862099-73-8 CAPLUS

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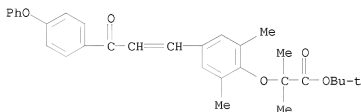
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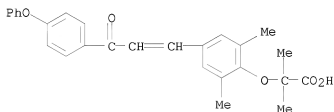
RN 862099-75-0 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-(4-phenoxymethyl)-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



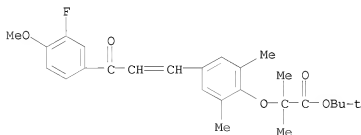
RN 862099-76-1 CAPLUS

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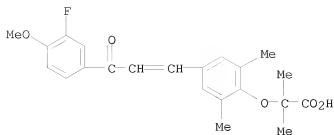
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CN Propanoic acid, 2-[4-[3-(3-fluoro-4-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

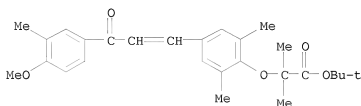


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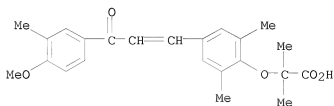
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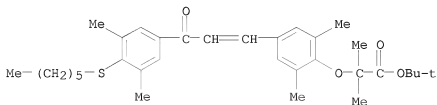
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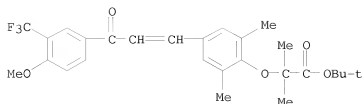
RN 862099-80-7 CAPLUS  
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RN 862099-81-8 CAPLUS  
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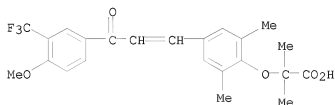


RN 862099-85-2 CAPLUS  
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RN 862099-86-3 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-methoxy-3-(trifluoromethyl)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2009 ACS on SIN

ACCESSION NUMBER: 2005:610755 CAPLUS

DOCUMENT NUMBER: 143:133180

TITLE: Compound derived from 1,3-diphenyl-2-propen-1-one, preparation, and use as PPAR $\alpha$ , in particular PPAR $\alpha$ , agonists and antioxidants

INVENTOR(S): Caumont, Bertrand Karine; Delhomel, Jean Francois

PATENT ASSIGNEE(S): Genfit S.A., Fr.

SOURCE: Fr. Demande, 67 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

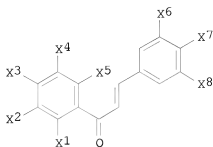
LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

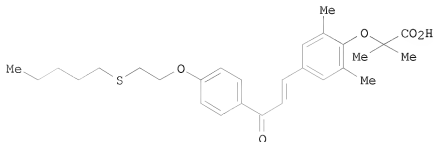
PATENT INFORMATION:

| PATENT NO.    | KIND                                                                                                                                                                                                                                                                                                                                                                                           | DATE     | APPLICATION NO. | DATE     |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| FR 2864956    | A1                                                                                                                                                                                                                                                                                                                                                                                             | 20050715 | FR 2004-123     | 20040108 |
| FR 2864956    | B1                                                                                                                                                                                                                                                                                                                                                                                             | 20060428 |                 |          |
| AU 2005209446 | A1                                                                                                                                                                                                                                                                                                                                                                                             | 20050811 | AU 2005-209446  | 20050107 |
| CA 2550576    | A1                                                                                                                                                                                                                                                                                                                                                                                             | 20050811 | CA 2005-2550576 | 20050107 |
| WO 2005073184 | A1                                                                                                                                                                                                                                                                                                                                                                                             | 20050811 | WO 2005-FR40    | 20050107 |
| W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |          |
| RW:           | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG                                                                                                             |          |                 |          |
| EP 1701938    | A1                                                                                                                                                                                                                                                                                                                                                                                             | 20060920 | EP 2005-717386  | 20050107 |
| R:            | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,                                                                                                                                                                                                                                                                                                                                |          |                 |          |

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| CN                     | 1930122                                                                           | A  | 20070314 | CN 2005-80007226 |
| BR                     | 2005006718                                                                        | A  | 20070502 | BR 2005-6718     |
| JP                     | 2007517841                                                                        | T  | 20070705 | JP 2006-548344   |
| NO                     | 2006002824                                                                        | A  | 20061005 | NO 2006-2824     |
| IN                     | 2006DN03732                                                                       | A  | 20070420 | IN 2006-DN3732   |
| US                     | 20080058412                                                                       | A1 | 20080306 | US 2006-585329   |
| US                     | 7547729                                                                           | B2 | 20090616 |                  |
| MX                     | 2006007867                                                                        | A  | 20060926 | MX 2006-7867     |
| ZA                     | 2006006542                                                                        | A  | 20080730 | ZA 2006-6542     |
| KR                     | 2006132903                                                                        | A  | 20061222 | KR 2006-715988   |
| PRIORITY APPLN. INFO.: |                                                                                   |    |          | FR 2004-123      |
|                        |                                                                                   |    |          | FR 2004-9257     |
|                        |                                                                                   |    |          | WO 2005-FR40     |
| OTHER SOURCE(S):       | MARPAT 143:133180                                                                 |    |          | A 20040108       |
| GI                     |                                                                                   |    |          | A 20040901       |
|                        |                                                                                   |    |          | W 20050107       |



I



II

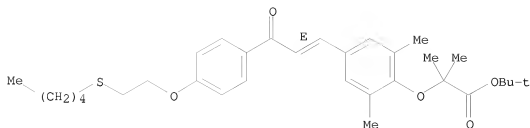
AB Title compds. I [X7 = (un)substituted O-alkyl, S-alkyl; X1-X5 = independently halo, thionitroso, alkoxy, aryloxy, etc.; X6, X8 = independently halo, H, alkoxy, etc; with provisos; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptor- $\alpha$  (PPAR $\alpha$ ) agonists and antioxidants. Eight biol. examples are given. For example, II was prepared by condensation of 4-[[2-(pentylthio)ethyl]oxy]acetophenone (preparation given) with 4-hydroxy-3,5-dimethylbenzaldehyde, O-alkylation with tert-Bu 2-bromoisobutyrate and ester acidolysis. II displayed antioxidant properties as demonstrated by reduction of 90% in the in vitro production of conjugated dienes after Cu-induced LDL oxidation. II showed induced luciferase activity via PPAR $\alpha$ /Gal4 transactivation with an induction factor of 18.49 at 10 $\mu$ M. I are useful for treating cardiovascular diseases, dyslipidemia, syndrome X, diabetes, obesity, hypertension, inflammations, dermatol. diseases, cerebral ischemia and the disorders



related to the oxidative stress, for treating aging, in particular cutaneous aging.

IT 858420-74-3P, (E)-1-[4-[[2-(Pentylthio)ethyl]oxy]phenyl]-3-[4-[[[(tert-butyl)oxy]carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-75-4P, (E)-1-[4-[[2-(Pentylthio)ethyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-76-5P, (E)-1-(4-Hydroxy-3,5-dimethylphenyl)-3-[4-[[[(tert-butyl)oxy]carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-77-6P, (E)-1-(4-Hydroxy-3,5-dimethylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-78-7P, (E)-1-[4-[[5-[(1,2)Dithiolan-3-yl]pentyl]oxy]phenyl]-3-[4-[[[(tert-butyl)oxy]carbonyl]dimethylmethyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-79-8P, (E)-1-[4-[[5-[(1,2)Dithiolan-3-yl]pentyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-82-3P, (E)-1-(4-Bromophenyl)-3-[3,5-dimethyl-4-[[[(ethyloxy)carbonyl](phenyl)methyl]oxy]phenyl]prop-2-en-1-one 858420-83-4P, 1-[4-[[2-(Pentylthio)ethyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-84-5P, 1-[4-[[2-(Cyclohexylthio)ethyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-86-7P, 1-(4-Hydroxy-3,5-dimethylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-87-8P, 1-(4-Methoxy-3,5-dimethylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-88-9P, 1-[4-[[5-[(1,2)Dithiolan-3-yl]pentyl]oxy]-3,5-dimethylphenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-89-0P, 1-[4-[[5-[(1,2)Dithiolan-3-yl]pentyl]oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-90-3P, 1-(4-Bromophenyl)-3-[4-[[[(carboxy)(phenyl)methyl]oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-91-4P, 1-(4-Mercapto-3,5-dimethylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-92-5P, 1-(4-Methylthio-3,5-dimethylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-93-6P, 1-[4-[(2-Cyclohexylethyl)thio]-3,5-dimethylphenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-94-7P, 1-[4-(Hexylthio)-3,5-dimethylphenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-95-8P, 1-(2,5-Dihydroxy-3,4,6-trimethylphenyl)-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858420-96-9P 858420-99-2P, 1-[4-[(2-Phenylethyl)oxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one 858421-00-8P, 1-[4-[2-(Morpholin-4-yl)ethyloxy]phenyl]-3-[4-[(carboxydimethylmethyl)oxy]-3,5-dimethylphenyl]prop-2-en-1-one  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(drug candidate; preparation of 1,3-di-Ph-2-propen-1-one as PPAR, in particular PPAR $\alpha$ , agonists and antioxidants and their pharmaceutical and cosmetic compns.)  
RN 858420-74-3 CAPLUS  
CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-[2-(pentylthio)ethoxy]phenyl]-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

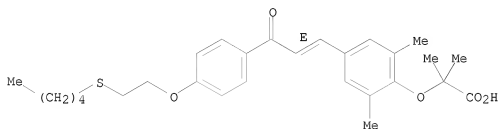
Double bond geometry as shown.



RN 858420-75-4 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-oxo-3-[4-[2-(pentylthio)ethoxy]phenyl]-1-propen-1-yl]phenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

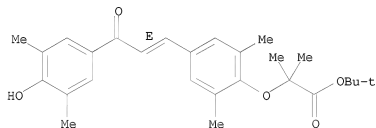
Double bond geometry as shown.



RN 858420-76-5 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-hydroxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

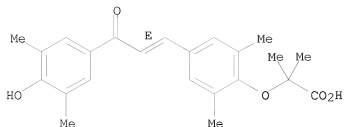
Double bond geometry as shown.



RN 858420-77-6 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-(4-hydroxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

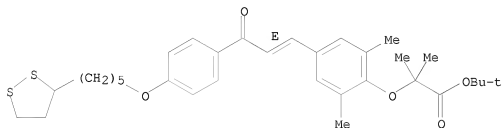
Double bond geometry as shown.



RN 858420-78-7 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-[[5-(1,2-dithiolan-3-yl)pentyl]oxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

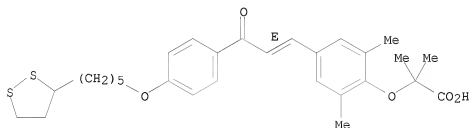
Double bond geometry as shown.



RN 858420-79-8 CAPLUS

CN Propanoic acid, 2-[4-[(1E)-3-[4-[[5-(1,2-dithiolan-3-yl)pentyl]oxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, (CA INDEX NAME)

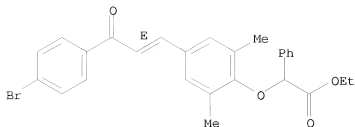
Double bond geometry as shown.



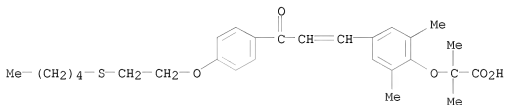
RN 858420-82-3 CAPLUS

CN Benzeneacetic acid,  $\alpha$ -[4-[(1E)-3-(4-bromophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-, ethyl ester (CA INDEX NAME)

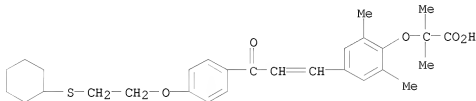
Double bond geometry as shown.



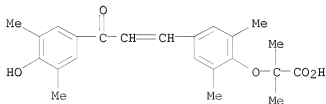
RN 858420-83-4 CAPLUS  
CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-[4-[2-(  
(pentylothio)ethoxy]phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX  
NAME)



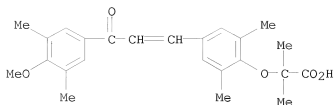
RN 858420-84-5 CAPLUS  
CN Propanoic acid, 2-[4-[3-[4-(2-(cyclohexylthio)ethoxy)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



RN 858420-86-7 CAPLUS  
CN Propanoic acid, 2-[4-[3-(4-hydroxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)

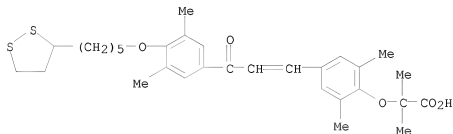


RN 858420-87-8 CAPLUS  
CN Propanoic acid, 2-[4-[3-(4-methoxy-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



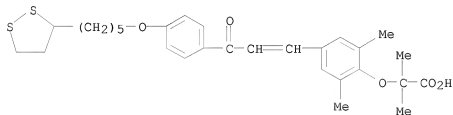
RN 858420-88-9 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-[[5-(1,2-dithiolan-3-yl)pentyl]oxy]-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



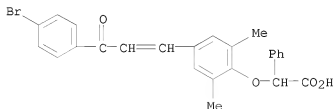
RN 858420-89-0 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-[[5-(1,2-dithiolan-3-yl)pentyl]oxy]phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



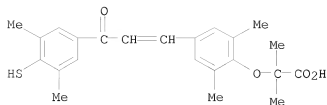
RN 858420-90-3 CAPLUS

CN Benzeneacetic acid, alpha-[4-[3-(4-bromophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]- (CA INDEX NAME)



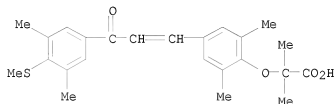
RN 858420-91-4 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-mercapto-3,5-dimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



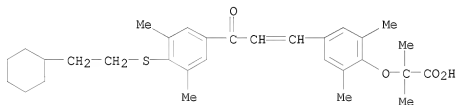
RN 858420-92-5 CAPLUS

CN Propanoic acid, 2-[4-[3-[3,5-dimethyl-4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



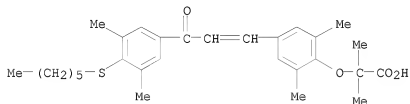
RN 858420-93-6 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-[(2-cyclohexylethyl)thio]-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



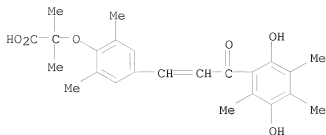
RN 858420-94-7 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-(hexylthio)-3,5-dimethylphenyl]-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



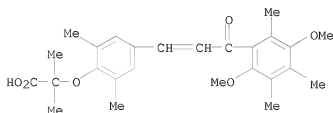
RN 858420-95-8 CAPLUS

CN Propanoic acid, 2-[4-[3-(2,5-dihydroxy-3,4,6-trimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



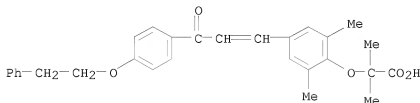
RN 858420-96-9 CAPLUS

CN Propanoic acid, 2-[4-[3-(2,5-dimethoxy-3,4,6-trimethylphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



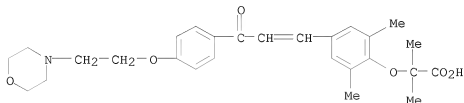
RN 858420-99-2 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[3-oxo-3-[4-(2-phenylethoxy)phenyl]-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



RN 858421-00-8 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[3-[4-[2-(4-morpholinyl)ethoxy]phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:33165 CAPLUS

DOCUMENT NUMBER: 142:134317

TITLE: Preparation of carboxyalkyloxy- and

carboxyalkylthio-1,3-diphenylprop-2-en-1-one  
 derivatives via O- and S-alkylation  
 Delhomel, Jean Francois; Caumont, Bertrand Karine  
 Genfit S.A., Fr.  
 SOURCE: Fr. Demande, 40 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | KIND | DATE                                   | APPLICATION NO.  | DATE       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------|------------------|------------|
| FR 2857361                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1   | 20050114                               | FR 2003-8354     | 20030708   |
| FR 2857361                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | B1   | 20050909                               |                  |            |
| AU 2004255905                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1   | 20050120                               | AU 2004-255905   | 20040708   |
| CA 2531443                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1   | 20050120                               | CA 2004-2531443  | 20040708   |
| WO 2005005369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1   | 20050120                               | WO 2004-FR1797   | 20040708   |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW<br>RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG |      |                                        |                  |            |
| EP 1644312                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1   | 20060412                               | EP 2004-767629   | 20040708   |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                        |                  |            |
| CN 1819986                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A    | 20060816                               | CN 2004-80019564 | 20040708   |
| BR 2004012370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A    | 20060905                               | BR 2004-12370    | 20040708   |
| SG 129448                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A1   | 20070226                               | SG 2007-644      | 20040708   |
| JP 2007516189                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T    | 20070621                               | JP 2006-518300   | 20040708   |
| NZ 544792                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A    | 20090228                               | NZ 2004-544792   | 20040708   |
| IN 2006DN00051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A    | 20070824                               | IN 2006-DN51     | 20060103   |
| MX 2006000159                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A    | 20060321                               | MX 2006-159      | 20060105   |
| NO 2006000087                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A    | 20060207                               | NO 2006-87       | 20060106   |
| KR 2006030110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A    | 20060407                               | KR 2006-700562   | 20060109   |
| US 20060142611                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A1   | 20060629                               | US 2006-563057   | 20060202   |
| US 7385082                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | B2   | 20080610                               |                  |            |
| ZA 2006001040                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A    | 20070530                               | ZA 2006-1040     | 20060206   |
| PRIORITY APPLN. INFO.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                        | FR 2003-8354     | A 20030708 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                        | WO 2004-FR1797   | W 20040708 |
| OTHER SOURCE(S):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | CASREACT 142:134317; MARPAT 142:134317 |                  |            |
| GI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                        |                  |            |

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The invention is directed to a method of preparation of 1,3-diphenylprop-2-en-1-one of formula I and II, substituted on one of the two Ph groups with a carboxyalkylthio or a carboxyalkyloxy, by O- or S-alkylation of the corresponding thio/phenols with halocarboxylates YR, and TFA-acidolysis of the resulting ester [X1 = halo, R1, G1R1; X2 = H, thionitroso, alkyloxy, alkylcarbonyloxy, alkythio, alkylcarbonylthio; X3 = R3, G3R3, X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; R1, R3, R4, R5 = independently H, alkyl (un)substituted by a carboxylic acid group; G1,

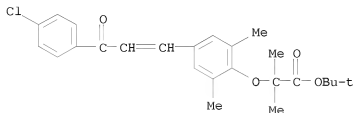


G3, G4, G5 = independently O, S; with one of X1, X3, X4, or X5 being of formula GR, wherein G = defined as above, R = carboxyalkyl; Y = halo]. The advantage includes higher global yield of product. Thus, reacting II with tert-Bu 2-bromoisobutyrate in MeCN the presence of K2CO3 at reflux for 10 h, and TFA-acidolysis gave III in 56% global yield. Claisen-Schmidt condensation of 4-chloroacetophenone with 3,5-dimethyl-4-hydroxybenzaldehyde in the presence of gaseous HCl saturated with EtOH gave II in 91%.

IT 824932-84-5P, 1-(4-Chlorophenyl)-3-[3,5-dimethyl-4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]phenyl]prop-2-en-1-one  
 824932-90-3P, 1-(4-Methylthiophenyl)-3-[3,5-dimethyl-4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]phenyl]prop-2-en-1-one  
 824932-93-6P, 1-(4-Hexyloxyphenyl)-3-[3,5-dimethyl-4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]phenyl]prop-2-en-1-one  
 824932-96-9P, 1-(2-Methyloxy-4-chlorophenyl)-3-[3,5-dimethyl-4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]phenyl]prop-2-en-1-one  
 824932-99-2P, 1-(4-Bromophenyl)-3-[3,5-dimethyl-4-[[[(tert-butyloxy)carbonyl]dimethylmethyl]oxy]phenyl]prop-2-en-1-one  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of carboxyalkylthio- and carboxyalkyloxy-1,3-diphenylprop-2-en-1-one derivs. by O- or S-alkylation of thio/phenols and acidolysis)

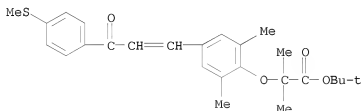
RN 824932-84-5 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-chlorophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



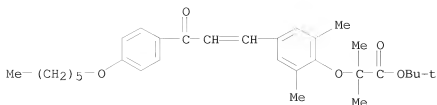
RN 824932-90-3 CAPLUS

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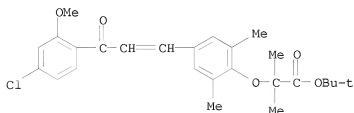
RN 824932-93-6 CAPLUS

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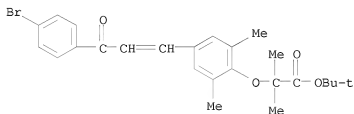
RN 824932-96-9 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-chloro-2-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 824932-99-2 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-bromophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



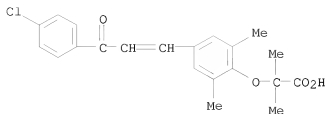
IT 824932-82-3P, 1-(4-Chlorophenyl)-3-[3,5-dimethyl-4-[(carboxydimethylmethyl)oxy]phenyl]prop-2-en-1-one 824932-88-9P, 1-(4-Methylthiophenyl)-3-[3,5-dimethyl-4-[(carboxydimethylmethyl)oxy]phenyl]prop-2-en-1-one 824932-91-4P, 1-(4-Hexyloxyphenyl)-3-[3,5-dimethyl-4-[(carboxydimethylmethyl)oxy]phenyl]prop-2-en-1-one 824932-94-7P, 1-(2-Methyloxy-4-chlorophenyl)-3-[3,5-dimethyl-4-[(carboxydimethylmethyl)oxy]phenyl]prop-2-en-1-one 824932-97-0P, 1-(4-Bromophenyl)-3-[3,5-dimethyl-4-[(carboxydimethylmethyl)oxy]phenyl]prop-2-en-1-one

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(product; preparation of carboxyalkylthio- and carboxyalkyloxy-1,3-diphenylprop-2-en-1-one derivs. by O- or S-alkylation of thio/phenols and acidolysis)

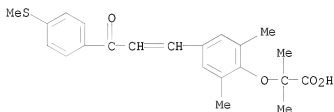
RN 824932-82-3 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-chlorophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



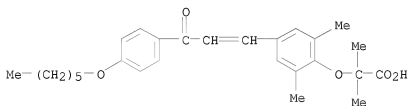
RN 824932-88-9 CAPLUS

CN Propanoic acid, 2-[2,6-dimethyl-4-[3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl- (CA INDEX NAME)



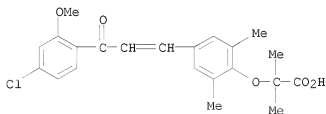
RN 824932-91-4 CAPLUS

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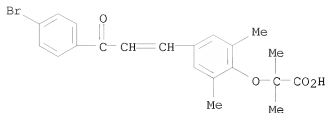
RN 824932-94-7 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-(4-chloro-2-methoxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



RN 824932-97-0 CAPLUS

CN Propanoic acid, 2-[4-[3-[4-(4-bromophenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

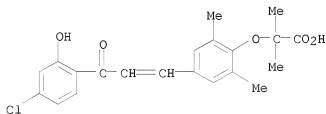
L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2009 ACS on SIN  
 ACCESSION NUMBER: 2004:19768 CAPLUS  
 DOCUMENT NUMBER: 140:76897  
 TITLE: Preparation of 1,3-diphenylprop-2-en-1-one as PPAR agonists and as antioxidants for treating cerebral ischemia and related diseases  
 INVENTOR(S): Najib, Jamila; Caumont Bertrand, Karine  
 PATENT ASSIGNEE(S): Genfit S.A., Fr.  
 SOURCE: Fr. Demande, 66 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

| PATENT NO.                                                                                                                                                                                                                                                                                                                                                                            | KIND | DATE     | APPLICATION NO. | DATE       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|------------|
| FR 2841900                                                                                                                                                                                                                                                                                                                                                                            | A1   | 20040109 | FR 2002-8571    | 20020708   |
| FR 2841900                                                                                                                                                                                                                                                                                                                                                                            | B1   | 20070302 |                 |            |
| CA 2490986                                                                                                                                                                                                                                                                                                                                                                            | A1   | 20040115 | CA 2003-2490986 | 20030708   |
| WO 2004005233                                                                                                                                                                                                                                                                                                                                                                         | A1   | 20040115 | WO 2003-FR2127  | 20030708   |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |            |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG                                                                                                                    |      |          |                 |            |
| AU 2003264698                                                                                                                                                                                                                                                                                                                                                                         | A1   | 20040123 | AU 2003-264698  | 20030708   |
| BR 2003012398                                                                                                                                                                                                                                                                                                                                                                         | A    | 20050412 | BR 2003-12398   | 20030708   |
| EP 1525177                                                                                                                                                                                                                                                                                                                                                                            | A1   | 20050427 | EP 2003-762749  | 20030708   |
| EP 1525177                                                                                                                                                                                                                                                                                                                                                                            | B1   | 20070627 |                 |            |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK                                                                                                                                                                                                                                                         |      |          |                 |            |
| CN 1668565                                                                                                                                                                                                                                                                                                                                                                            | A    | 20050914 | CN 2003-816366  | 20030708   |
| JP 2005532385                                                                                                                                                                                                                                                                                                                                                                         | T    | 20051027 | JP 2004-518890  | 20030708   |
| AT 365703                                                                                                                                                                                                                                                                                                                                                                             | T    | 20070715 | AT 2003-762749  | 20030708   |
| NZ 538051                                                                                                                                                                                                                                                                                                                                                                             | A    | 20071130 | NZ 2003-538051  | 20030708   |
| ES 2287528                                                                                                                                                                                                                                                                                                                                                                            | T3   | 20071216 | ES 2003-762749  | 20030708   |
| NO 2004005301                                                                                                                                                                                                                                                                                                                                                                         | A    | 20050204 | NO 2004-5301    | 20041203   |
| MX 2005000427                                                                                                                                                                                                                                                                                                                                                                         | A    | 20050930 | MX 2005-427     | 20050107   |
| ZA 2005001082                                                                                                                                                                                                                                                                                                                                                                         | A    | 20070131 | ZA 2005-1082    | 20050207   |
| US 20050176808                                                                                                                                                                                                                                                                                                                                                                        | A1   | 20050811 | US 2005-520079  | 20050422   |
| US 20070032543                                                                                                                                                                                                                                                                                                                                                                        | A1   | 20070208 | US 2006-493040  | 20060726   |
| PRIORITY APPLN. INFO.:                                                                                                                                                                                                                                                                                                                                                                |      |          | FR 2002-8571    | A 20020708 |

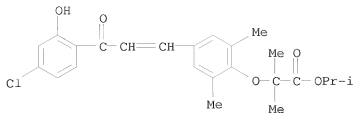
OTHER SOURCE(S): MARPAT 140:76897  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

- AB Title compds. I [wherein X1 = halo, R1, G1R1; X2 = H, thionitroso, OH, alkylcarbonyloxy, alkyloxy, SH, alkylthio, alkylcarbonylthio or X2 = O or S that forms a 2-phenyl-4H-1-benzopyran-4-one with the carbon-3 of the propene chain; X3 = R3, G3R3; X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; X6 = O, NH and derivs.; R1, R3, R4, R5 = independently H, (un)substituted alkyl; G1, G3, G4, G5 = independently O or S; with at least one of X1, X3, X4, or X5 of formula GR and one of the R1, R3, R4, or R5 is a substituted radical, and that radical form a cycle, or is associated with a group G; their optical and geometrical isomers, racemates, tautomers, salts, hydrates and mixts.; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptors- $\alpha$  (PPAR $\alpha$ ) agonists and as antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared by mixed-Aldol condensation of ketone III with 4-hydroxy-3,5-ditertbutylbenzaldehyde in the presence of ethanol/HCl. In an antioxidant test, selected I diminished the formation of oxidation product of LDL by AAPH by 33%. Selected I were PPAR $\alpha$  agonists and showed induced luciferase activity via PPAR $\alpha$ /Gal4 transactivation. I are neuroprotectants useful for treating ischemia.
- IT 639864-34-9P, 1-(2-Hydroxy-4-chlorophenyl)-3-(3,5-dimethyl-4-carboxydimethylmethoxyphenyl)prop-2-en-1-one 639864-35-0P, 1-(2-Hydroxy-4-chlorophenyl)-3-[3,5-dimethyl-4-[[[(isopropoxy)carbonyl]dimethylmethyl]oxy]phenyl]prop-2-en-1-one RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(PPAR $\alpha$  agonist; preparation of diphenylpropenones as PPAR agonists for treating ischemia)
- RN 639864-34-9 CAPLUS
- CN Propanoic acid, 2-[4-[3-(4-chloro-2-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



- RN 639864-35-0 CAPLUS
- CN Propanoic acid, 2-[4-[3-(4-chloro-2-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1-methylethyl ester (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2009 ACS on SIN

ACCESSION NUMBER: 2004:19750 CAPLUS

DOCUMENT NUMBER: 140:76896

TITLE: Composition based on substituted 1,3-diphenylprop-en-1-one derivatives, preparation and use as PPAR $\alpha$  agonists, antioxidants as well as antiinflammatory agents

INVENTOR(S): Najib, Jamila; Caumont Bertrand, Karine

PATENT ASSIGNEE(S): Genfit S.A., Fr.

SOURCE: Fr. Demande, 66 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.                                                                                                                                                                                                                                                                                                                                                                            | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| FR 2841784                                                                                                                                                                                                                                                                                                                                                                            | A1   | 20040109 | FR 2002-8570    | 20020708 |
| FR 2841784                                                                                                                                                                                                                                                                                                                                                                            | B1   | 20070302 |                 |          |
| CA 2490993                                                                                                                                                                                                                                                                                                                                                                            | A1   | 20040115 | CA 2003-2490993 | 20030708 |
| WO 2004005243                                                                                                                                                                                                                                                                                                                                                                         | A2   | 20040115 | WO 2003-FR2128  | 20030708 |
| WO 2004005243                                                                                                                                                                                                                                                                                                                                                                         | A3   | 20040422 |                 |          |
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| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG                                                                                                                    |      |          |                 |          |
| AU 2003264699                                                                                                                                                                                                                                                                                                                                                                         | A1   | 20040123 | AU 2003-264699  | 20030708 |
| EP 1519908                                                                                                                                                                                                                                                                                                                                                                            | A2   | 20050406 | EP 2003-762750  | 20030708 |
| EP 1519908                                                                                                                                                                                                                                                                                                                                                                            | B1   | 20070613 |                 |          |
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| BR 2003012399                                                                                                                                                                                                                                                                                                                                                                         | A    | 20050412 | BR 2003-12399   | 20030708 |
| CN 1688532                                                                                                                                                                                                                                                                                                                                                                            | A    | 20051026 | CN 2003-816351  | 20030708 |
| JP 2005532386                                                                                                                                                                                                                                                                                                                                                                         | T    | 20051027 | JP 2004-518891  | 20030708 |
| AT 364588                                                                                                                                                                                                                                                                                                                                                                             | T    | 20070715 | AT 2003-762750  | 20030708 |
| NZ 538052                                                                                                                                                                                                                                                                                                                                                                             | A    | 20070928 | NZ 2003-538052  | 20030708 |
| ES 2287529                                                                                                                                                                                                                                                                                                                                                                            | T3   | 20071216 | ES 2003-762750  | 20030708 |
| NO 2004005082                                                                                                                                                                                                                                                                                                                                                                         | A    | 20041227 | NO 2004-5082    | 20041122 |
| MX 2005000425                                                                                                                                                                                                                                                                                                                                                                         | A    | 20050722 | MX 2005-425     | 20050107 |
| ZA 2005001081                                                                                                                                                                                                                                                                                                                                                                         | A    | 20070425 | ZA 2005-1081    | 20050207 |
| US 20050171149                                                                                                                                                                                                                                                                                                                                                                        | A1   | 20050804 | US 2005-520078  | 20050404 |

PRIORITY APPLN. INFO.:

FR 2002-8570

A 20020708

OTHER SOURCE(S):

MARPAT 140:76896

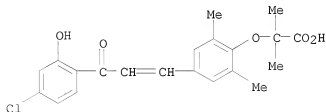
WO 2003-FR2128

W 20030708

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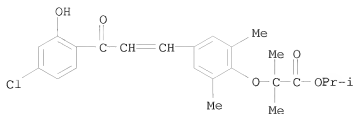
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

- AB Title compds. I [wherein X1 = halo, R1, G1R1; X2 = H, thionitroso, OH, alkylcarbonyloxy, alkyloxy, SH, alkylthio, alkylcarbonylthio or X2 = O or S that forms a 2-phenyl-4H-1-benzopyran-4-one with the carbon-3 of the propene chain; X3 = R3, G3R3; X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; X6 = O, NH and derivs.; R1, R3, R4, R5 = independently H, (un)substituted alkyl; G1, G3, G4, G5 = independently O or S; with at least one of X1, X3, X4, or X5 of formula GR and one of the R1, R3, R4, or R5 is a substituted radical, and that radical form a cycle, or is associated with a group G; their optical and geometrical isomers, racemates, tautomers, salts, hydrates and mixts.; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptors- $\alpha$  (PPAR $\alpha$ ) agonists and as antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared by mixed-Aldol condensation of ketone III with 4-hydroxy-3,5-ditertbutylbenzaldehyde in the presence of ethanol/HCl. In an antioxidant test, selected I (10<sup>-3</sup> M) diminished the formation of oxidation product of LDL by AAPH by 33%. Selected I were PPAR $\alpha$  agonists, showing induced luciferase activity via PPAR $\alpha$ /Gal4 transactivation with a factor of induction ranging from 10 to 60, 5-50 and 3-35 at 100  $\mu$ M, 30  $\mu$ M, and 10  $\mu$ M resp. I and their compns. are useful for treating cardiovascular diseases, syndrome X, restenosis, diabetes, obesity, hypertension, inflammatory diseases, cancers or neoplasms (benign or malignant tumors), neurodegenerative diseases, dermatol. and the disorders related to the oxydative stress, for preventing and treating aging, and in particular cutaneous aging.
- IT 639864-34-9P 639864-35-0P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (PPAR $\alpha$  agonist; preparation of diphenylpropenones as PPAR agonists for treating ischemia)
- RN 639864-34-9 CAPLUS
- CN Propanoic acid, 2-[4-[3-(4-chloro-2-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl- (CA INDEX NAME)



RN 639864-35-0 CAPLUS

CN Propanoic acid, 2-[4-[3-(4-chloro-2-hydroxyphenyl)-3-oxo-1-propen-1-yl]-2,6-dimethylphenoxy]-2-methyl-, 1-methylethyl ester (CA INDEX NAME)



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 51.62      | 237.72  |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| -6.56      | -6.56   |

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